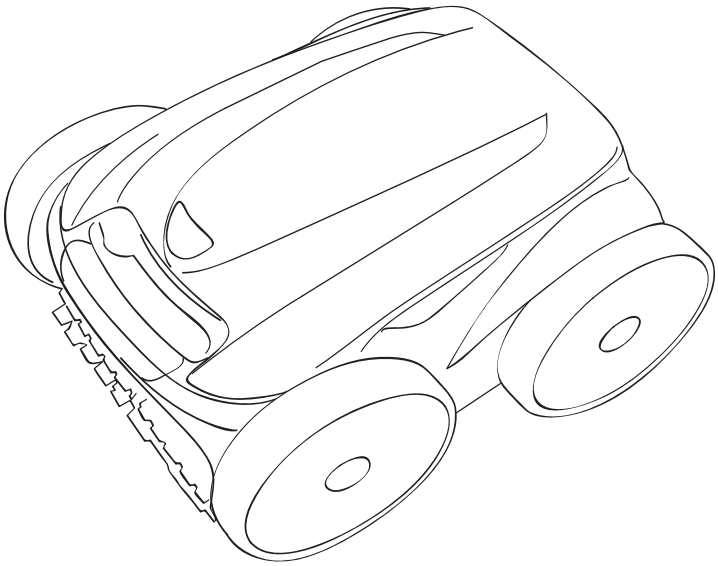
ZODIAC®

OWNER'S MANUAL

ENGLISH | FRANÇAIS



VORTEX™ 3
VORTEX 4

⚠ WARNING

FOR YOUR SAFETY - For anything other than the routine cleaning and maintenance described in this manual, this product must be serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. In the event no such state or local requirement exists, the maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Improper installation and/or operation will void the warranty.

H0367100 Rev -

THANK YOU FOR PURCHASING THIS VORTEX™ ROBOTIC POOL CLEANER BY ZODIAC®.

YOUR VORTEX CLEANER HAS BEEN DESIGNED AND MANUFACTURED TO BE EASILY INSTALLED AND TO PROVIDE LOW MAINTENANCE OPERATION. PRIOR TO INSTALLING YOUR NEW CLEANER, PLEASE DO THE FOLLOWING:

1) Complete and return the warranty card.

2) Record your purchase information on the spaces provided below.

3) Attach your invoice (or a copy) to this page.

Taking these steps will help ensure prompt warranty service, should it be required. If service is required, please contact your original dealer. If the original dealer does not perform warranty service, please visit www.zodiacpoolsystems.ca to locate an independent service company near you. If you are unable to locate a service company, please call our Technical Support department at 888-647-4004.

RECORD YOUR ZODIAC CLEANER DATA HERE:

Date of Purchase_____Purchased From_____ Serial Number:_____
(located on machine head)

City_____ Province_____ Postal Code_____

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Section 1. Important Safety Instructions

Congratulations on purchasing a Zodiac Vortex Robotic Pool Cleaner. Please take a moment to read through the entire manual before installing your new robotic pool cleaner. Your cleaner must be installed and operated as specified.

READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING

Failure to comply with the following warnings can result in permanent injury, electrocution or drowning.

PREVENT ELECTRICAL SHOCK

To reduce risk of electrical shock:

- Only connect the control box to a power outlet protected by a 30 mA maximum ground fault circuit interrupter (GFCI). If in doubt contact a qualified electrician.
- The GFCI receptacle should be provided by a qualified installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this product. Disconnect the cleaner and have the problem corrected by a qualified service representative before using.
- Make sure the plug is permanently and easily accessible.
- The control box must not be installed in a floodable area.
- Per the United States National Electric Code (NEC®), keep the power unit at least five (5) ft. (1.5 m) from the edge of the (pool/spa) water and do not remove it from its caddy. In Canada, the Canadian Electrical Code (CEC®) requires a minimum distance of three (3) m (10 ft.) to be maintained between the pool edge and the power unit. Never submerge the control unit.
- Do not enter pool while the cleaner is in water.
- Do not bury cord. Locate cord so as to prevent it from being damaged by lawn mowers, hedge trimmers and other equipment.
- To reduce the risk of electrical shock, do not use the cleaner or control unit if the cord is worn or damaged. Contact your local Zodiac dealer immediately for a replacement cord.
- Double insulation—For continued protection against possible electric shock, use only identical replacement parts when servicing. Do not attempt repair of the cleaner, control unit, power cord, or floating cable. All repairs should be made by an experienced service professional using only Zodiac OEM parts.
- NEVER OPEN CONTROL UNIT.
- Do not use an extension cord to connect the unit to electric supply; provide a properly located outlet. The control unit should be placed near the outlet box.
- PREVENT CHILD INJURY AND DROWNING
- To reduce the risk of injury, do not permit children to operate this product.
- Do not let anyone, especially small children, sit, step, lean, or climb on any equipment installed as part of your pool's operational system.

⚠ CAUTION

Failure to comply with the following warnings could cause damage to pool equipment or personal injury.

- This product is intended for use with permanently-installed pools. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.
- The cleaner must be installed and operated as specified.
- Turn the cleaner off before removing it from water, and do not operate the cleaner out of water.
- Do not remove the cleaner from the pool for 15 minutes after the cleaning cycle has completed.
- The cleaner's filter canister must be emptied after each use.
- Do not use the product in your pool if the water temperature is above 95˚ F (35˚ C) or below 55˚ F (13˚ C).

⚠ CAUTION

USE OF THE ZODIAC VORTEX ROBOTIC CLEANER IN A VINYL LINER POOL

Certain vinyl liner patterns are particularly susceptible to rapid surface wear of pattern removal caused by objects coming into contact with the vinyl surface, including pool brushes, pool toys, floats, fountains, chlorine dispensers, and automatic pool cleaners. Some vinyl liner patterns can be seriously scratched or abraded simply by rubbing the surface with a pool brush. Ink from the pattern can also rub off during the installation process or when it comes into contact with objects in the pool.

Zodiac Pool Systems Canada, Inc. is not responsible for, and the Limited Warranty does not cover, pattern removal, abrasion or markings on vinyl liners.

⚠ CAUTION

VORTEX 4 ONLY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two (2) conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an electrical source on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Modifications made to this equipment, which are not authorized by the manufacturer, may void the user's authority to operate this equipment.

SAVE THESE INSTRUCTIONS

Section 2. Cleaner Specifications

2.1 General Specifications

The general specifications for the cleaner are as follows:

	Vortex 3	Vortex 4
Control box supply voltage	100-125 VAC, 60 Hz	100-125 VAC, 60 Hz
Supply voltage	30 V DC	30 V DC
Installed load	150 W max	150 W max
Cable length	60 ft (18 m)	70 ft (21 m)
Cleaner size (WxDxH)	16.9 x 18.9 x 10.6 in. 43 x 48 x 27 cm	16.9 x 18.9 x 10.6 in. 43 x 48 x 27 cm
Pack size (WxDxH)	22.8 x 22.8 x 23.2 in. 58 x 58 x 59 cm	22.8 x 22.8 x 23.2 in. 58 x 58 x 59 cm
Weight of Cleaner	21 lbs. (9.5 kg)	21 lbs. (9.5 kg)
Packed weight	42 lbs. (19 kg)	42 lbs. (19 kg)
Filtration	less than 100 microns	less than 100 microns
Cycle lengths	1.5 hrs, 2.5 hrs.	1.5 hrs, 2.5 hrs & adjustable

The cleaner is a double-insulated product. A double-insulated electrical appliance is one which has been designed in such a way that it does not require a safety connection to ground. The basic requirement for double-insulation is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed (grounded) metal casing. This is achieved by having two (2) layers of insulating material surrounding live parts or by using reinforced insulation. Therefore, devices having double-insulated construction, such as this cleaner, do not utilize a grounded (three-prong) cord/plug.

Section 3. Assembly and Initial Usage

3.1 Unpacking

The packaging should contain the following items (Refer to Figure 1):

- Vortex cleaner
- Control unit
- Remote control **(Vortex 4 only)**
- Transport and storage caddy (complete with assembly components)

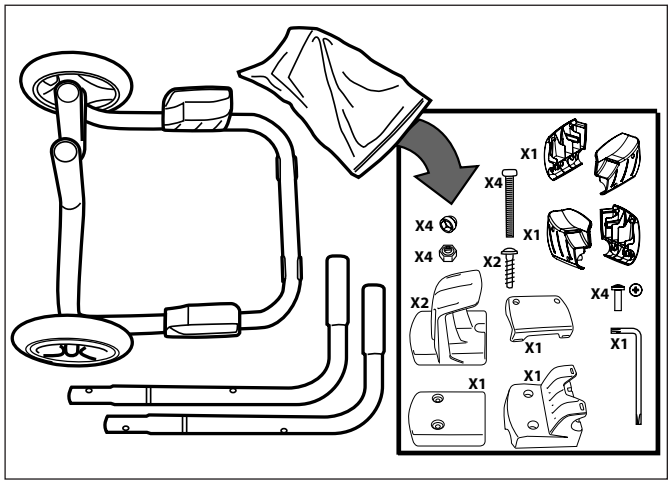

Figure 1. Components

Check that the unit has not been damaged during transport. If you detect damage, contact Zodiac Pool Systems Canada, Inc. at 1-888-647-4004 before using your cleaner.

To unpack the cleaner and its components:

1. Remove the lower portion of the caddy along with the upper and lower power cable hooks, control unit hook, power cable hook plate, locking plate, nuts, bolts and screws.
2. Remove the small box that contains the control unit.
3. Remove the handles (left and right) of the caddy, which are located against one side of the box.
4. Remove the cleaner from the box.

3.2 Assembling the Transport Caddy

1. Insert the upper tubes (handles) into the bottom tubes on the cart as shown in Figure 2. Make sure the upper tubes (handles) are in the proper orientation and align the screw holes.

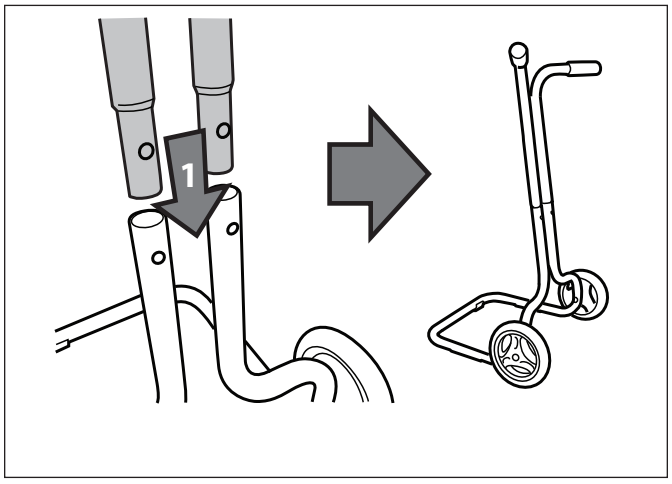

Figure 2. Install the Handles

2. Position the bottom power cable hook as shown in Figure 3. Place the cable hook plate opposite the power cable hook. Secure using a screw and tighten with the Torx® wrench (supplied with unit). Refer to Figure 4.

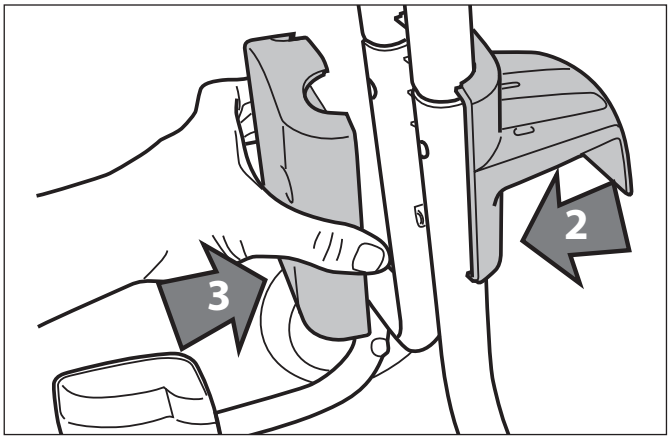

Figure 3. Position the Bottom Power Cable Hook

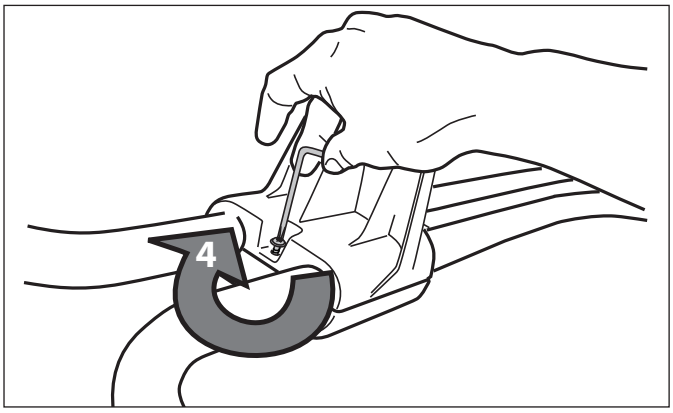

Figure 4. Secure the Bottom Power Cable Hook

3. Secure the cable hook plate using two (2) bolts and two (2) nuts and tighten with Torx wrench. Refer to Figure 5.

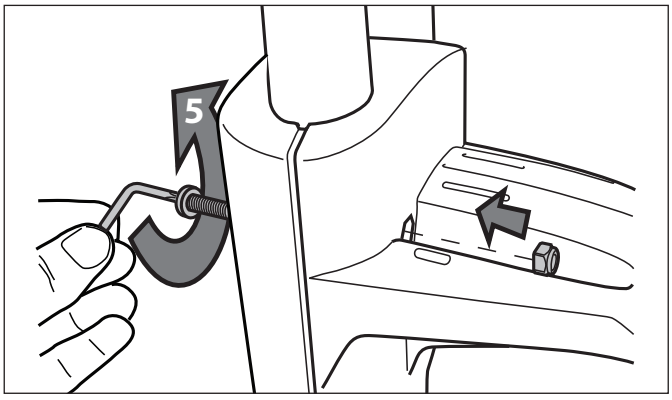

Figure 5. Secure the Cable Hook Plate

4. Position the power cable hook and control unit hook on the upper tubes as shown in Figure 6. Make sure the upper tubes (handles) are in the proper orientation.

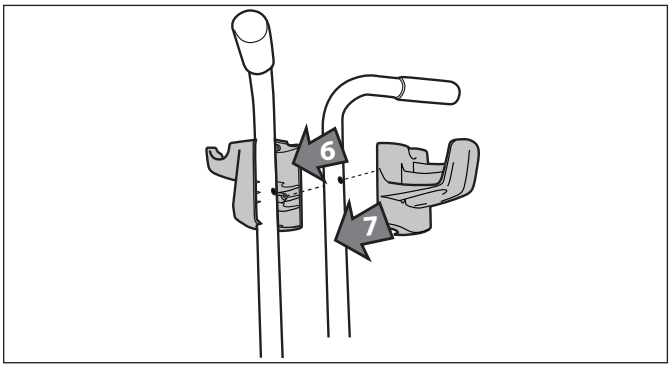

Figure 6. Position the Bottom Power Cable Hook

5. Secure the power cable hook and control unit hook around the tubes using a screw and tighten with the Torx wrench. Refer to Figure 7.

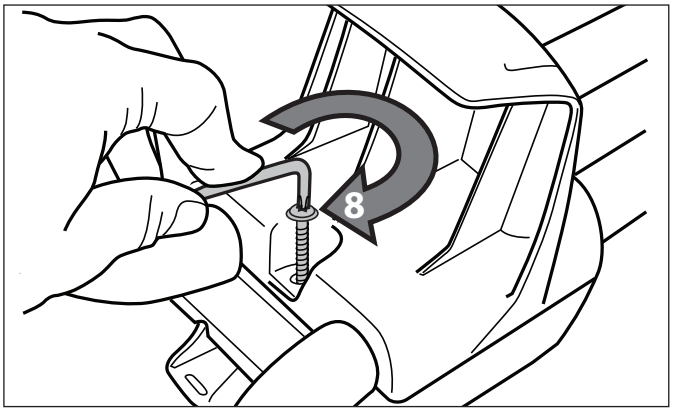

Figure 7. Install the Power Cable Hook and Control Unit Hook

6. Secure the control unit hook using two (2) bolts and two (2) nuts and tighten with Torx wrench. Refer to Figure 8.

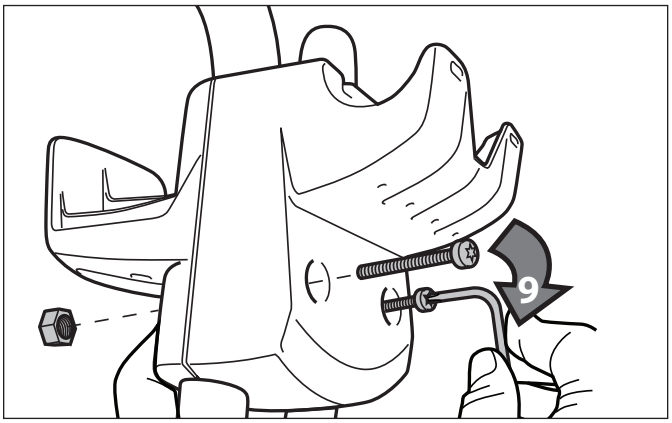

Figure 8. Secure the Hooks

7. Place two (2) caps on the wheels as shown in Figure 9.

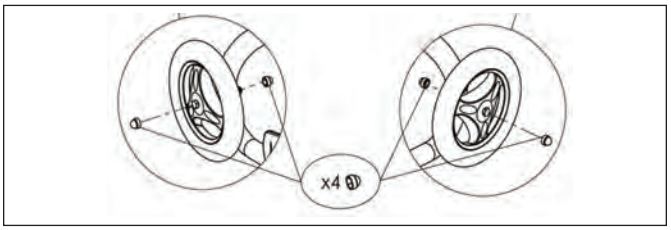

Figure 9. Attaching Wheel Caps

8. Attach the support blocks to the caddy using four (4) screws as shown in Figure 10.

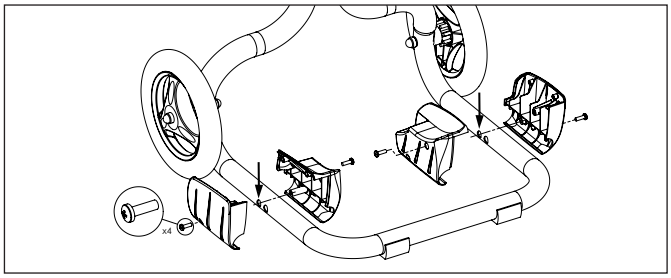

Figure 10. Attaching the Support Blocks

9. The transport caddy is now ready to use as shown in Figure 11.

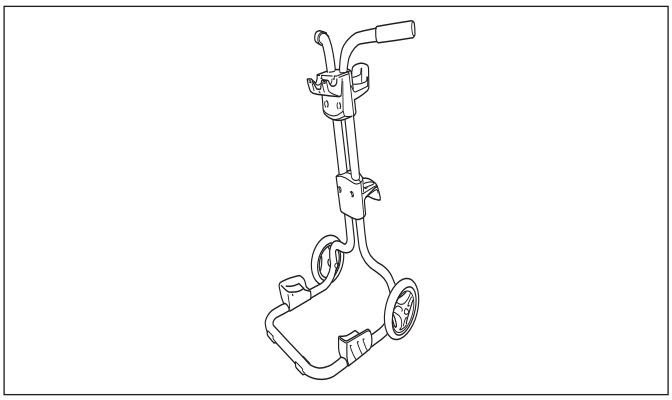

Figure 11. Transport and Storage Caddy Assembled

3.3 Connecting the Control Unit to the Caddy

1. Position the control unit over the control unit hook on the caddy.
2. Slide the locking plate clips into the control hook and line up the screw holes. Refer to Figure 12.

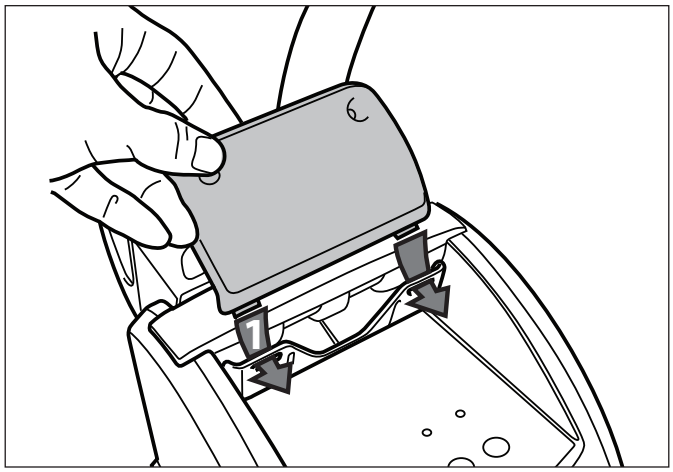

Figure 12. Position the Locking Plate Clips

3. Secure the locking plate using Phillips head screws. Do not overtighten. Refer to Figure 13.

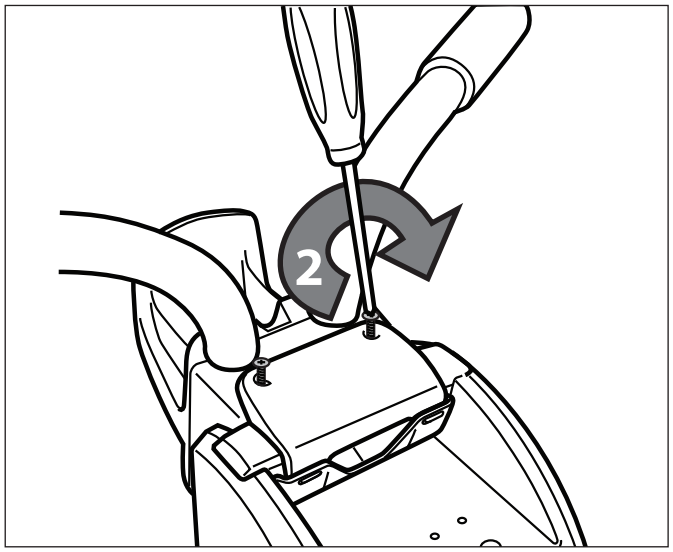

Figure 13. Secure the Locking Plate

3.4 Electrical Connection

⚠ WARNING

Failure to comply with the following warnings can result in permanent injury, electrocution or drowning.

PREVENT ELECTRICAL SHOCK

- **U.S.**: Per NEC® requirements, keep the control unit at least five (5) ft. (1.5 m) from the edge of the pool. **CANADA**: Per CEC® requirements, keep the control unit at least three (3) m (10 ft.) from the edge of the pool.
- Only connect the control unit to a receptacle protected by a ground fault circuit interrupter (GFCI). Contact a certified electrician if you cannot verify that the receptacle is protected by a GFCI.
- Do not use an extension cord to connect the control unit.
- Do not allow anyone to swim while the cleaner is in the pool.

For your safety and to obtain the best possible performance from your cleaner, connect the cleaner's floating cable to the control unit and thread connector until it is snug. Do not overtighten. Refer to Figure 14.

The control unit is equipped with an automatic shut off feature to prevent overheating if operated in direct sunlight for an extended period of time.

⚠ WARNING

The control unit is water-resistant, not waterproof. In order to prevent electrocution, which could result in serious injury or death, never submerge the control unit or leave exposed to inclement weather.

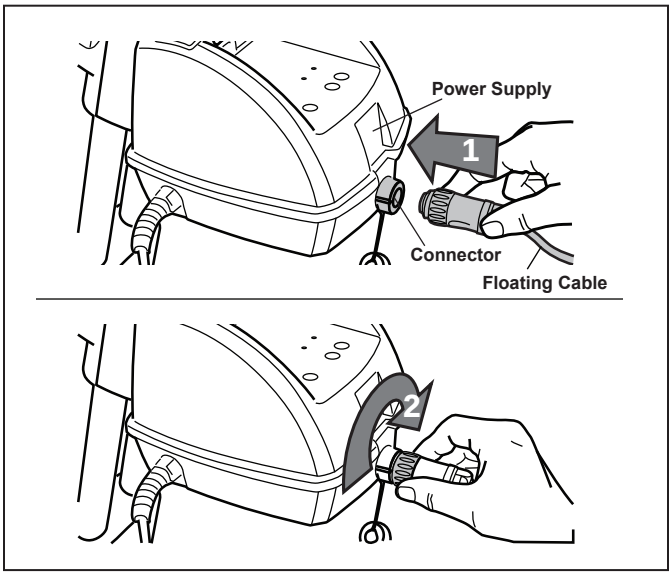

Figure 14. Electrical Connection

Section 4. Operation

4.1 Submerging the Cleaner

1. Submerge the cleaner in the pool and remove any air trapped inside by keeping the unit vertical. Refer to Figure 15.

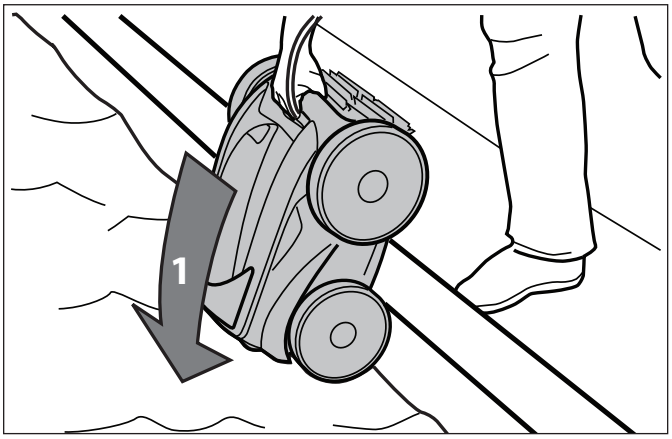

Figure 15. Submerge the Cleaner Vertically

2. Ensure the unit sinks to the bottom of the pool and does not float. Refer to Figure 16.

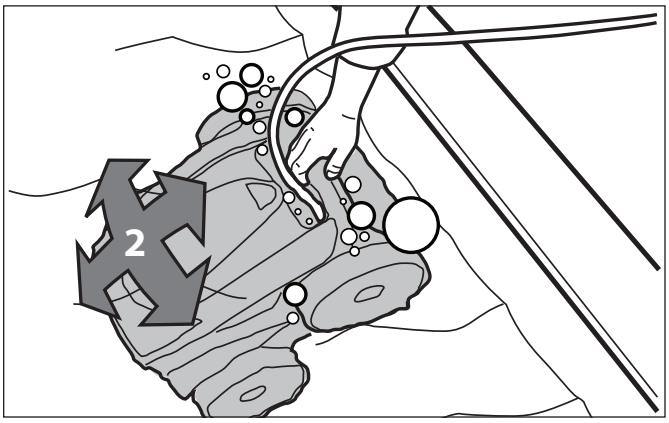

Figure 16. Cleaner Sinking to the Bottom of the Pool

3. Spread out the floating cable over the pool, ensuring there are no kinks or coils in the cable. Refer to Figure 17.

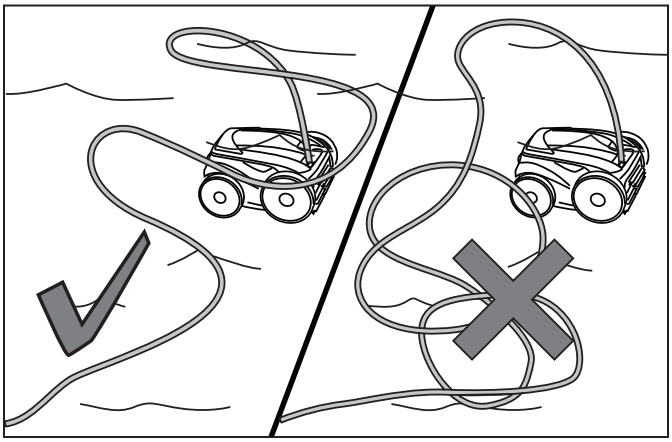

Figure 17. Spread Floating Cable Over the Pool

4.2 Operating the Vortex 3

⚠ CAUTION

To prevent damage to the cleaner, be sure to adhere to the following guidelines:

- Do NOT remove the cleaner from the pool for 15 minutes after the cleaning cycle ends.
- Approximately 15 minutes after the cycle is completed, the light located on the control unit will flash slowly to indicate that the cleaner may be removed from the pool. The 15 minute period allows the motor to cool and will prevent damage to the cleaner.
- Remove the cleaner from the pool after the cleaning cycle is completed and store on the caddy out of direct sunlight or inclement weather.
- Never lift the cleaner out of the pool by the floating cable. Always use the handle to remove it from the pool (refer to Figures 20 and 21).
- Take additional care when lifting the cleaner out of the pool. It becomes heavier when filled with water.
- Remove the cleaner from pool when super chlorinating or adding acid.
- Do not handle cleaner while it is in operation.

NOTE Always make sure the cleaner head is fully submerged in the water before you begin the operation cycle.

When the cleaner is powered ON it will remain in standby until one of the cycle program selection buttons is pressed. Select either the Cycle I or Cycle II cleaning program on the control unit: (See Figure 18.)

Cycle I Program	Cycle II Program
Completed in 1.5hours	Completed in 2.5 hours
Maximum coverage in minimal time	Intensive and complete cleaning
Thorough pool floor cleaning	Thorough pool floor and wall cleaning

1. To start your cleaner, press the desired cycle button (Figure 18). "Cycle I" is the most commonly selected cleaning program for inground pools.

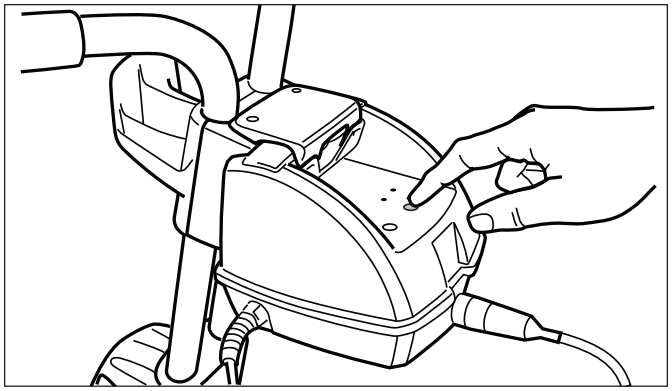

Figure 18. Start the Cleaner

2. When the cycle program button is selected the indicator light will illuminate. The cleaner will start in a few seconds.
3. To change the selected cleaning cycle, press the new cycle button and the new cycle will start in a few seconds.
4. If you wish to stop the cleaner during a cleaning cycle, press the OFF button. Refer to Figure 19.
5. At the end of the cycle, the cleaner will stop and after 15 minutes the light will flash slowly to indicate the cycle is completed.

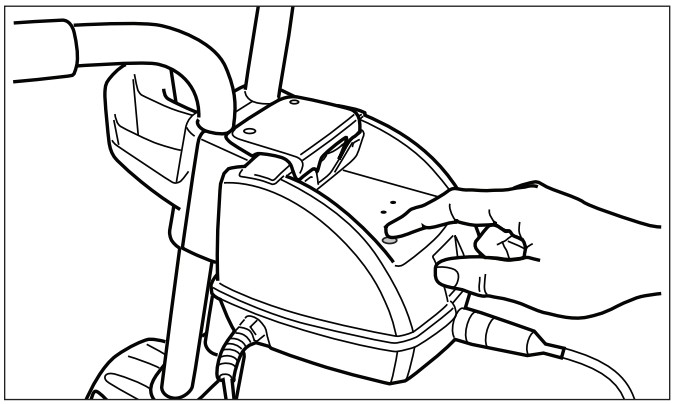

Figure 19. Turn Cleaner Off

6. The cleaner includes a safety feature that automatically stops the cleaner after about 20 seconds if it is powered on but not submerged in water. For pools equipped with a beach area, this safety feature allows the cleaner to reverse, and back into the pool when the impeller is out of the water.
7. Disconnect the control unit cable from the electrical outlet.
8. Disconnect the cable from the control unit.

NOTE The cleaner cable must always be disconnected before removing the cleaner from the pool.

9. Remove the cleaner from the pool using the handle (refer to Figures 20 and 21). Never lift the cleaner out of the pool by the floating cable.

10. Loosely coil the cable starting at the cleaner and go toward the connection point at control unit. Remove any twists along the way. Store the cable by wrapping it around the hooks located at the rear of the caddy.

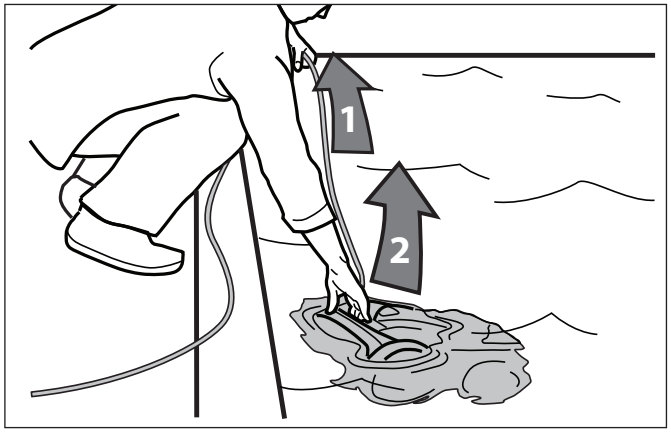

Figure 20. Remove Cleaner From Pool

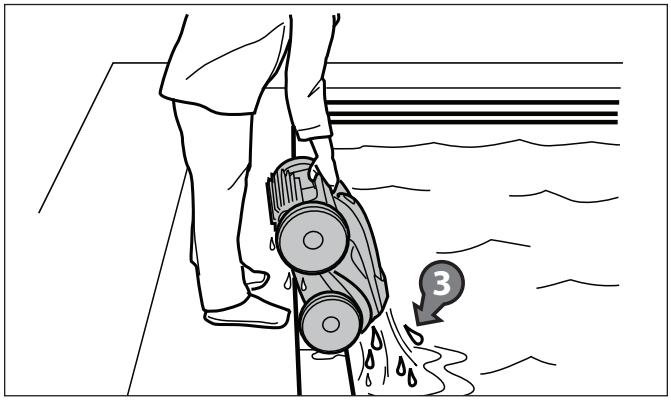

Figure 21. Keep Cleaner Vertical to Drain Water

IMPORTANT

- Use your cleaner as often as needed to keep your pool clean.
- Clean the filter canister after each cleaning cycle.
- Do not leave your cleaner in the pool on a permanent basis.
- At the end of each cycle, remove the cleaner from the pool. Start at the cleaner head and untangle any coils in the cable before storing the cleaner.

4.3 Operating the Vortex 4

⚠ CAUTION

To prevent damage to the cleaner, be sure to adhere to the following guidelines:

- Do NOT remove the cleaner from the pool for 15 minutes after the cleaning cycle ends.
- Approximately 15 minutes after the cycle is completed, the light located on the control unit will flash slowly to indicate that the cleaner may be removed from the pool. The 15 minute period allows the motor to cool and will prevent damage to the cleaner.
- Remove the cleaner from the pool after the cleaning cycle is completed and store on the caddy.
- Never lift the cleaner out of the pool by the floating cable. Always use the handle to remove it from the pool. Refer to Figures 20 and 21.
- Remove the cleaner from pool when super chlorinating.
- Do not handle cleaner while it is in operation.-

NOTE Always make sure the cleaner head is fully submerged in the water before you begin the operation cycle.

When the cleaner is powered ON it will remain in standby until one of the cycle program selection buttons is pressed. Select either the Cycle I or Cycle II cleaning program on the control unit.

Cycle I Program	Cycle II Program
Completed in 1.5hours	Completed in 2.5 hours
Maximum coverage in minimal time	Intensive and complete cleaning
Thorough pool floor cleaning	Thorough pool floor and wall cleaning

1. To start your cleaner, press the desired cycle button (Figure 18). "Cycle I" is the most commonly selected cleaning program for inground pools.

2. When the "Cycle I" program button is selected the indicator light will illuminate. The cleaner will start in a few seconds.

3. Depending on the state of your pool it is possible to modify the time of the cleaning cycle by pressing the button. Pressing the button will increase the cleaning time by

60 minutes or decrease the cleaning time by 30 minutes. When the cleaner is powered on, the Cycle and time will correspond to the cycle and the time that were active at the time it was last switched off.

4. If you wish to stop the cleaner during a cleaning cycle, press the "Power" button. Refer to Figure 19.

5. After the cleaning cycle is completed, the four (4) lights located on the control unit will flash slowly to indicate that the cleaner may be removed from the pool.

6. Disconnect the control unit cable from the electrical outlet.

7. Disconnect the cable from the control unit.

NOTE The cleaner cable must always be disconnected before removing the cleaner from the pool.

8. Remove the cleaner from the pool using the handle (refer to Figures 20 and 21). Never lift the cleaner out of the pool by the floating cable.

9. Loosely coil the cable starting at the cleaner and go toward the connection point at control unit. Remove coils or twists along the way.

10. Store the cleaner on the caddy with the cable coiled when not in use.

IMPORTANT

- The cleaner includes a safety feature that automatically stops the cleaner after 20 seconds, if it is powered on, but not submerged in the water. For pools equipped with a beach area, this safety feature allows the cleaner to reverse, and back into the pool when the impeller is out of the water.
- Use your cleaner as often as needed to keep your pool clean.
- Clean the filter canister after each cleaning cycle.
- Do not leave your cleaner in the pool on a permanent basis.
- At the end of each cycle, remove the cleaner from the pool. Start at the cleaner head and untangle any coils in the cable before storing the cleaner.
- Remove the cleaner from pool when super chlorinating.

4.4 Remote Control Operation (Vortex 4 Only)

⚠ CAUTION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two (2) conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an electrical source on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Modifications made to this equipment, which are not authorized by the manufacturer, may void the user’s authority to operate this equipment.

Remote control of the Vortex 4 is available using the hand held remote control unit. The remote control unit has four (4) buttons (Figure 22):

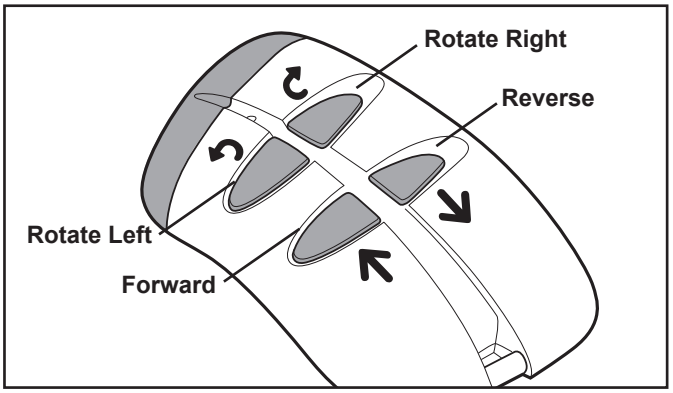

Figure 22. Remote Control

To turn the cleaner, you must hold down the rotate left or rotate right button.

When using the remote control unit, the two (2) lights on the control unit will flash alternately.

To return to automatic mode, either stop using the remote control unit buttons for a minimum of 45 seconds or press Cycle I or Cycle II button on the control unit.

4.5 Enabling the Automatic Start Mode (Vortex 4 Only)

Automatic Start Mode allows the control unit to launch a preset 2.5 hour cleaning cycle, which is triggered by an external timer / programming clock.

When set in Automatic Start Mode, the Vortex 4 will run for 2.5 hours, whether the control unit is set to Cycle I or Cycle II. You may not change the running time when operating in this mode.

4.6 Starting the Cycle with a Programming Clock (timer)

1. Connect the control unit to a time clock and turn on the time clock.
2. To automatically start the "Cycle I", press the following button for more than three (3) seconds:

   + Cycle I
3. To automatically start the "Cycle II", press the following button for more than three (3) seconds:

   + Cycle II
4. The two (2) lights will flash once.
5. The robot will start automatically when it is powered on.

4.7 Cancelling an Automatic Start

1. Connect the control unit to the receptacle.
2. Press the OFF button for more than six (6) seconds.
3. The two (2) lights will flash once

Section 5. Cleaning and Maintenance

⚠ WARNING

To avoid electric shock and other hazards which could result in permanent injury or death, disconnect (unplug) the cleaner from the power source before performing any cleaning and maintenance.

5.1 Cleaning the Filter Canister

The filter canister should be cleaned at the end of each cycle.

1. Ensure that the control unit cable has been disconnected from the electrical outlet or that the floating cable has been disconnected from the control unit.
2. Remove the cleaner from the water and let the remaining water drain by maintaining the cleaner in the vertical position.
3. Set the unit on its wheels.
4. To remove the filter from the cleaner, follow the steps 5 through 8 (Figures 23 through 26).
5. Push the cover lock (1) and lift the cover (2)

until it is secured in the vertical position. Refer to Figure 23.

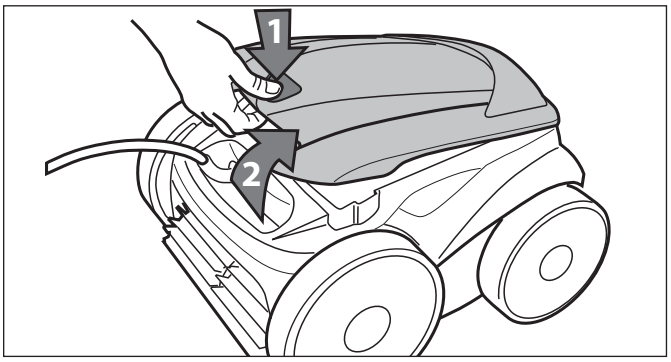

Figure 23. Lift Cleaner Cover

6. Remove the filter assembly from the body (3), as shown in Figure 24.

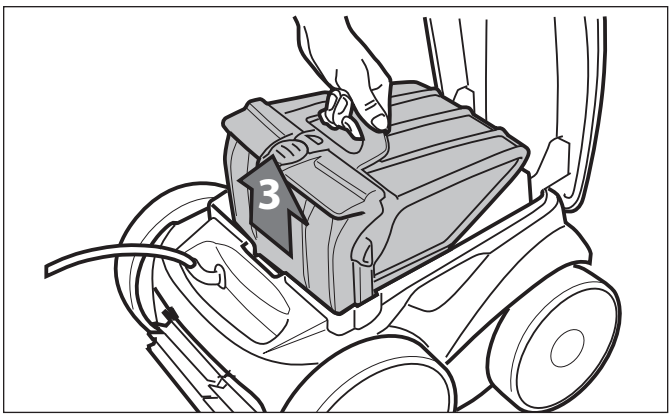

Figure 24. Remove Filter Assembly

7. Push the quick release button on the canister assembly (4) and pull open the filter assembly (5). Refer to Figure 25.

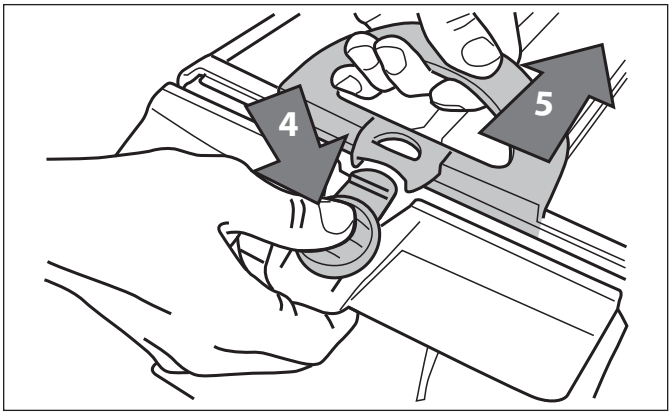

Figure 25. Open Filter Assembly

8. Separate the filter canister from the filter support (6), as shown in Figure 26.

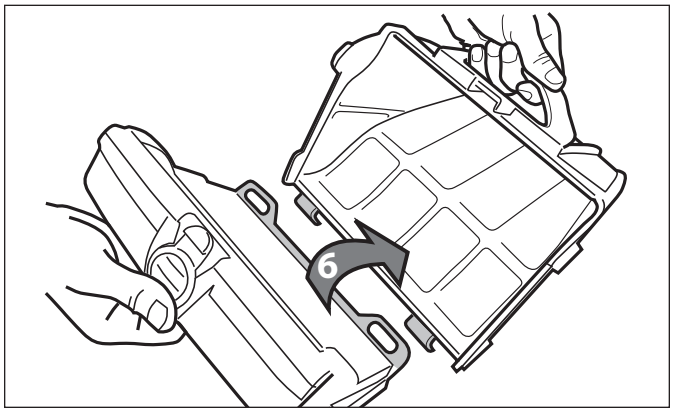

Figure 26. Remove Filter Canister

9. Empty all debris from the filter canister, then rinse the canister, the filter support, and the cleaner under water or using a hose. Refer to Figure 27.

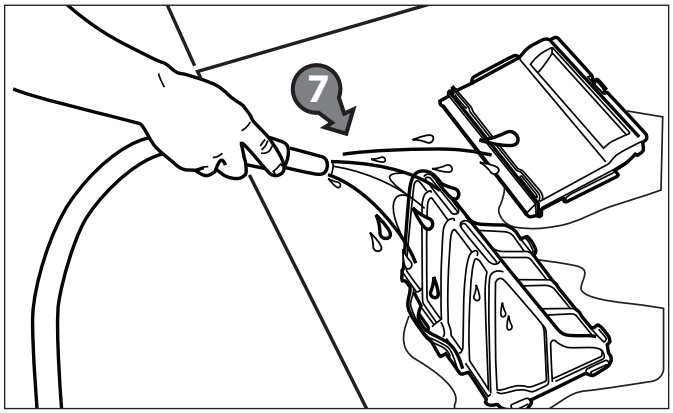

Figure 27. Wash Filter Canister

5.2 Cleaning and Storing the Cleaner

The cleaner must be cleaned regularly using slightly soapy clean water, do not use solvents such a trichloroethylene or its equivalent. Rinse the cleaner generously using clean water. Do not let your cleaner dry in direct sunlight near the pool. The cleaner must be stored on its own caddy, so that it dries quickly.

1. Place the rear wheels on the caddy side wedges as shown in Figure 28.

Figure 28. Position Cleaner on Caddy

2. Roll the unit into place onto the caddy. Refer to Figure 29.

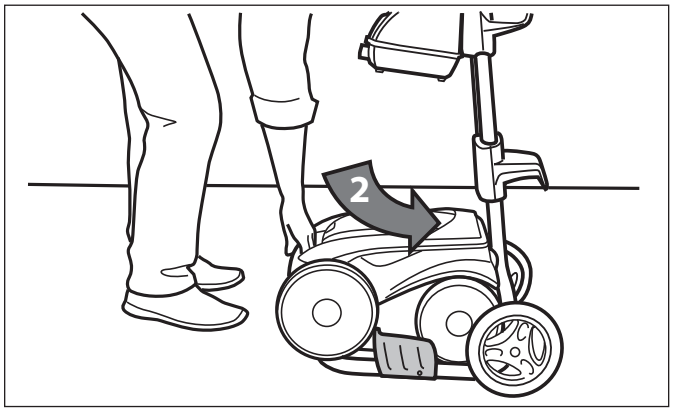

Figure 29. Roll Cleaner onto Place on the Caddy

5.3 Replacing the Brushes

The cleaner is fitted with PVC brushes. There are "wear" indicators on the brushes. To maintain cleaner performance at its best you need to replace the brushes as soon as one of the wear indicators has been reached (even if the blade wear is not even). Zodiac Pool Systems Canada, Inc. recommends that you replace the brushes every two (2) years.

1. Lift the cleaner to a vertical position so that the handle is up. Refer to Figure 30.

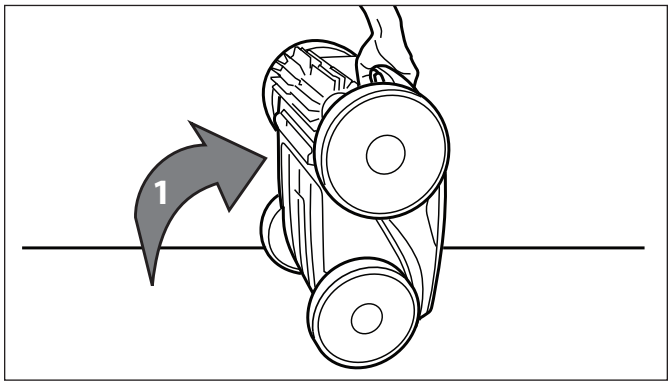

Figure 30. Cleaner in Upright Position

2. Separate the edges of the brush and undo the tabs as shown in Figure 31. Remove the worn brushes.

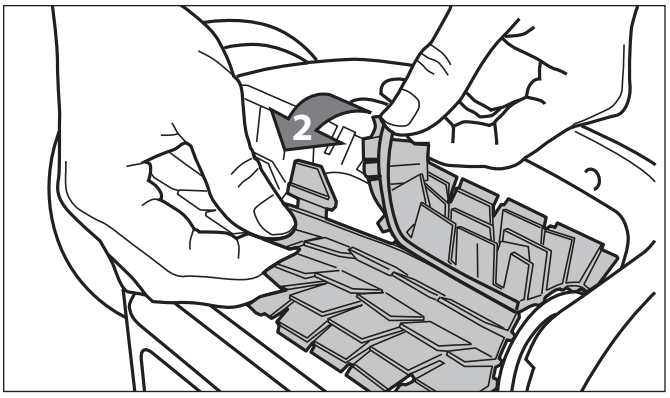

Figure 31. Undo the Tabs of the Brush

3. To install a new brush, position the new brush on the roller with the spikes facing downwards. Refer to Figure 32.

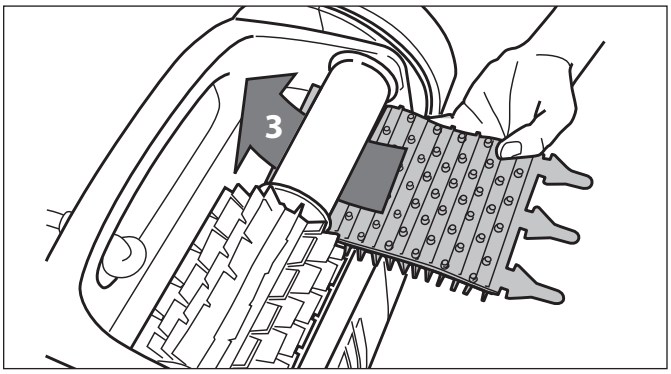

Figure 32. Install the New Brush

4. Thread each tab into the slot provided and gently feed it through until the heel comes out at the other side of the slot. Refer to Figure 33.

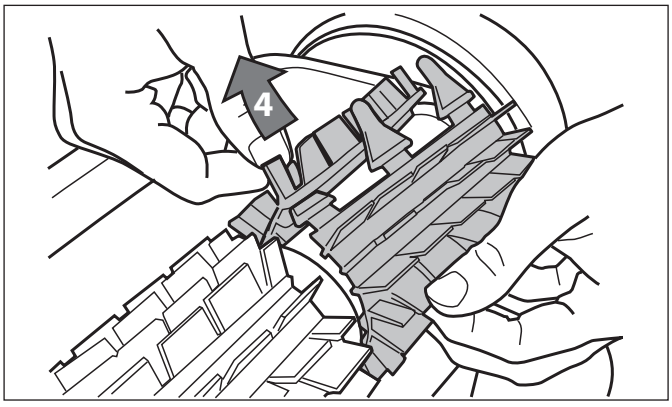

Figure 33. Pull Tabs Through Each Slot

5. Use a pair of scissors to cut the tabs 3/4 inch from the heel so that they are no higher than the spikes as shown in Figure 34.

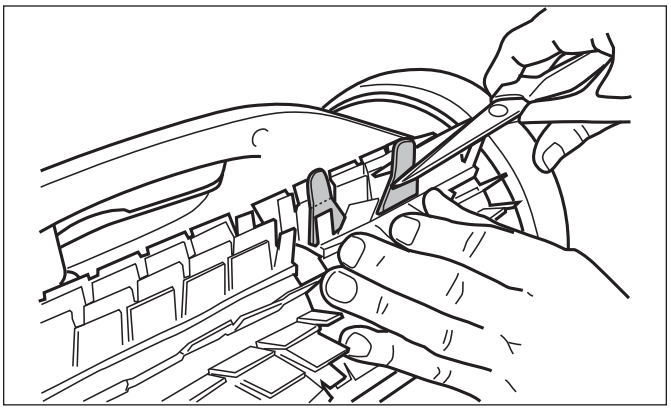

Figure 34. Cut Tabs

6. Repeat this procedure to install the second brush.

5.4 Replacing the Tires on the Cleaner

1. Pull on the inside of the old tire to remove the tire lip from the wheel. See Figure 35.

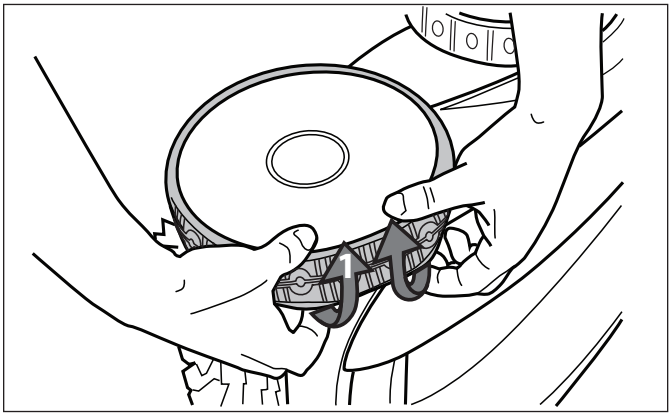

Figure 35. Pull the Old Tire Over the Wheel

2. Remove the old tire as shown in Figure 36.

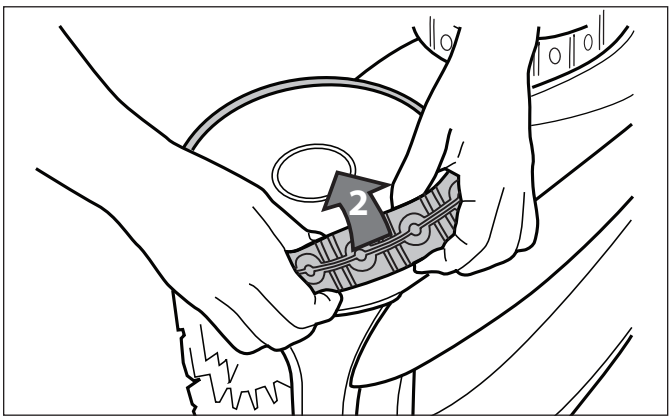

Figure 36. Remove the Old Tire

3. To replace the tire, position the tire on the wheel making sure to orient the tire so that the word INSIDE is toward the body of the cleaner. See Figure 37.

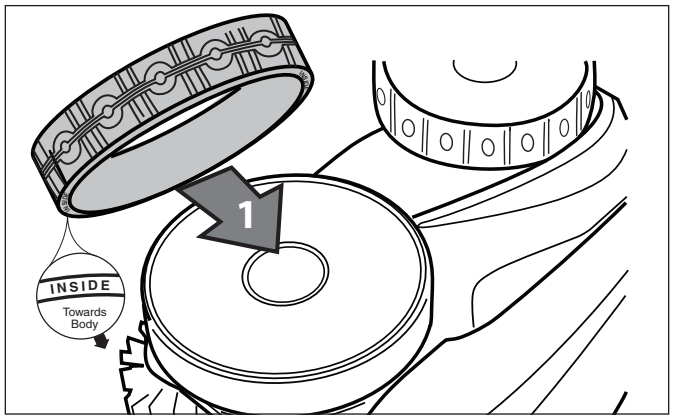

Figure 37. Tire Replacement Orientation

4. Push one side of the tire on to the wheel and fit the rib of the tire in the groove of the wheel as shown in Figure 38.

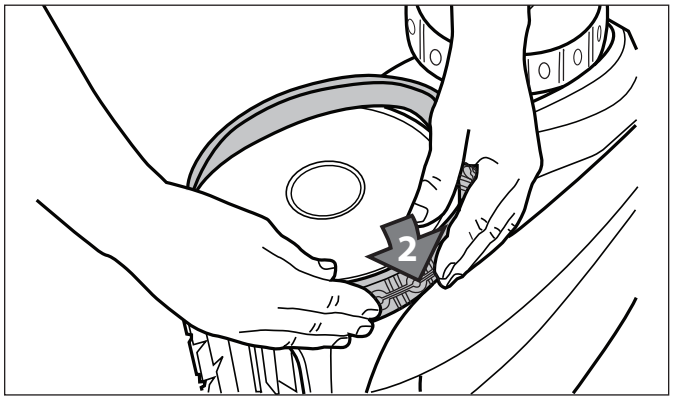

Figure 38. Start on One Side of the Tire

5. Work the tire onto the wheel and verify the rib of the tire is positioned properly within the groove of the wheel. Refer to Figure 39

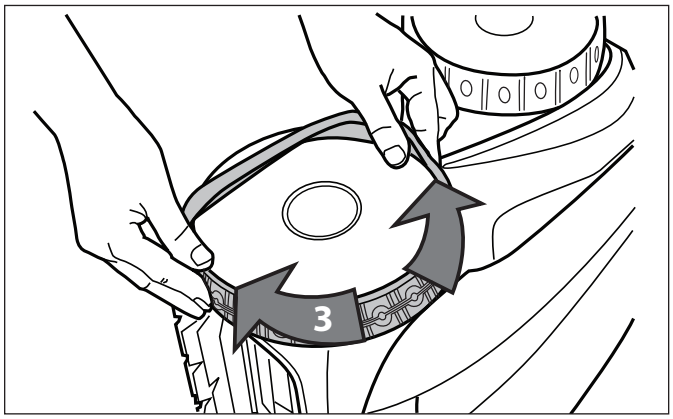

Figure 39. Work the Tire On Around the Wheel

6. Push and position the rib of the inner side of the tire in the groove of the wheel. Refer to Figure 40. If needed, turn the wheel gently to help with installation.

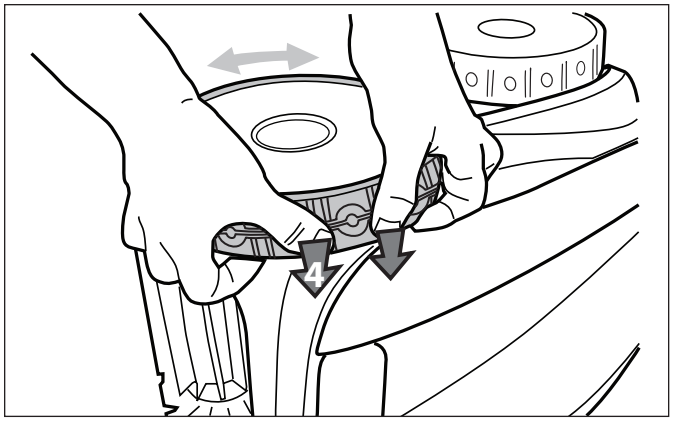

Figure 40. Push the Tire into Place on the Wheel

Section 6. Replacement Parts

The complete replacement parts list and exploded view is available on the Zodiac website at www.zodiacpoolsystems.ca

Section 7. Troubleshooting

The following table lists some of the more common symptoms, causes and solutions encountered when using the cleaner. The unit employs flashing lights during Cycle I and II to indicate different issues on the control unit and on the cleaner. These indicators are not necessarily major issues. To turn off the flashing light, press the power button, then start a new cycle. If the flashing lights persist after completing troubleshooting, please contact your retailer. DO NOT open the control unit.

Symptom	Cause	Solution
The flashing indicator lights appear just after start (pressing the Power or Cycle button to start the cleaner) (< 20 seconds).	Ensure the floating cable is properly plugged into the control unit.	Unplug the floating cable from the control unit and plug it in again.
	Ensure the cleaner is well submerged and free of trapped air.	Submerge the cleaner following the procedure in Section 4.1, "Submerging the Cleaner".
	Cleaner needs to be reset and start new cycle.	Press the power button OFF and then Cycle I or II Program buttons to start new cycle.
	Propeller does not turn. The filter canister needs to be emptied.	Please contact your local service representative.
	Wheels do not turn.	Please contact your local service representative.
The flashing lights appears during the cycle.	Light flashes if the cleaner sucks air for 60 seconds or more. May be caused at beach entry if cleaner does not reverse correctly.	Resubmerge the cleaner following the procedure in Section 4.1, "Submerging the Cleaner".
The cleaner does not stay firmly on the pool bottom.	There is air in the appliance casing.	Submerge the cleaner following the procedure in Section 4.1, "Submerging the Cleaner".
The cleaner does not or no longer climbs the pool sides.	The filter canister is full or dirty.	Clean the filter canister following the procedure Section 5.1, "Cleaning the Filter Canister".
	Sides of pool are slippery or slimy. Although the water seems clear, microscopic algae, invisible to the human eye, are present in the pool. As a result the pool sides become slippery and prevent the cleaner from climbing. Check tires for wear and replace as necessary.	Do a shock chlorination treatment and slightly reduce the pH. DO NOT leave the cleaner in the pool during this treatment.
On startup the cleaner does not move.	Not supplied with electricity.	The outlet, the control unit is connected to, is not supplying electrical power. Check that the outlet to which the control unit is connected is receiving electricity.
	Unit is turned ON.	Check that you have started one (1) of the two (2) programs and check that the indicator for the selected program is lit. If the problem persists, contact your local service representative.
The Cycle I and II program indicators flash alternately.	Your cleaner has encountered a problem or an issue during its operation.	Disconnect the control unit and wait 20 seconds before reconnecting the control unit. Check that the floating cable is correctly connected to the control unit. Check that no debris impedes the rotation of the brushes and/or the propeller. Empty the filter canister and clean the filter. Start a new cleaning program. If the problem continues contact your local service representative.

The cleaner seems to be performing less efficiently.	The brushes have become smooth or the "wear" indicator shows.	Replace the brushes following the procedure in Section 5.3, "Replacing the Brushes".
	Filter canister is full or dirty.	Clean the filter canister following the procedure in Section 5.1, "Cleaning the Filter Canister".
	Floating cable is excessively coiled or kinked.	Make sure the floating cable is spread out over the pool. Ensure the cable is not too tightly wrapped or coiled when storing. If the problem persists, lay the cable straight in the sun to relax it and remove kinks.
Vortex 4 Only		
Symptom	**Cause**	**Solution**
The remote control does not work.	The batteries are dead and need to be replaced.	Replace the batteries in the remote control.
	The remote control is not synchronized to the control unit.	**Synchronizing procedure:** When replacing the control unit or the remote control, it is necessary to synchronize the new remote control with the control unit: 1. Connect the Vortex 4 to the control unit, then plug the control unit to the receptacle. 2. Press OFF + Cycle I buttons for more than 6 seconds until both lights flash once: 3. Press and hold the "rotate right" button on the remote control unit. 4. The light on the right will flash 5 times then both lights will flash together. 5. The synchronization procedure is completed when both lights switch off.

NOTES